Serial No. 10/042,150

Amdt. dated December 2, 2003

Reply to Office Action of September 2, 2003

Amendments to the Specification:

Please replace paragraph [002] with the following amended paragraph:

Referring to FIG. 1, a related art medical instrument washer is, in general, provided with

a body 1 divided into a washing tub 2, and a pump room 3, an upper rack 4, and a lower rack

5 drawably fitted in the washing tub 2, an upper spray arm 4a in a lower part of the upper rack

5 for spraying washing water toward the upper rack 4, an extension tube 4b vertically disposed

in an upper part of the upper rack 4 having one end connected to the upper spray arm 4a for

supplying washing water to the upper spray arm 4a, and a lower spray arm 5a in a lower part of

the lower rack 5 for spraying washing water toward the lower rack 5. The related art medical

instrument washer is also provided with a sump 6 in the pump room 3 for collecting washing

water supplied to the washing tub 2, or returned after washing, a washing pump 7 connected to

the sump $\underline{6}$ for discharging washing water in the sump $\underline{6}$ to the upper/lower spray arms 4a, and

5a, a first flow passage 8 having one end connected to the washing pump 7, the other end

connected to the other end of the extension tube 4b, and a body part arranged along a rear

surface of the washing tub 2 for supplying washing water to the upper spray arm 4a, and a

second flow passage 9 having one end connected to the washing pump 7, the other end

connected to the lower spray arm 5a for supplying washing water to the lower spray arm 5a.

Please replace paragraphs [004] and [005] with the following amended

paragraphs:

Upon pushing in the upper and/or lower rack 4/5 into the washing tub 2 after the user

Docket No. K-0388

sets washing objects (medical instruments) on the upper and/or lower rack 4/5, the other end

of the extension tube 4b is engaged with the other end of the first flow passage 8. Then, a door

1a in front part of the body 1 is closed, and a starting button is pressed, to put the medical

instrument washer into operation. Then, as water is supplied, and the washing pump 7 comes

into operation, the supplied washing water is drawn into the washing pump 7 through the sump

6. By pumping of the washing pump 7, the washing water is pressed to the upper spray arm 4a

and the lower spray arm 5a along the first flow passage 8 and the second flow passage 9

respectively, and sprayed through spray nozzles in the spray arms 4a and 5a toward the

upper/lower racks 4, and 5 respectively, thereby washing the medical instruments.

However, the first flow passage 8 of the related art medical instrument washer is too long

with additional extension tube 4b, to cause a an excessive pressure loss of the washing water as

a quantity of the washing water increases. That is, since one end of the first flow passage 8 starts

from the washing pump 7, is lead to the upper part of the washing tub 2 along the rear surface

of the washing tub 2, and the other end of the first flow passage 8 is connected to the extension

tube 4b located in the upper rack 4 part, loss of washing water quantity and pressure drop caused

by the lengthy first flow passage 8 have been problems.

Reply to Office Action of September 2, 2003

Please replace paragraphs [013] and [014] with the following amended paragraphs:

Referring to FIGS. 2, or 3, the medical instrument washer in accordance with a preferred

embodiment of the present invention includes an upper rack 11 drawably fitted in a washing tub

2, for setting washing objects, a flow passage 12 having one end 12a located on a rear side of the

washing tub for supplying washing water to the rear side, and a washing duct 13 on the upper

rack having a washing water inlet 13a in rear part thereof so as to be detachably connected to

one end 12a of the flow passage as the upper rack 11 is drawn/pushed in.

It is preferable that an opening is provided in a front part of the washing tub 2 for

draw/push in the upper rack 11, with a door in the opening so that the washing water inlet 13a

in the washing duct 13 is pressed onto the one end 12a of the flow passage to make the washing

water inlet 13a engaged with the one end 12a by a thrust generated when the upper rack 11

moves backward when the door is closed. Along with this, it is further preferable that there is

a rubber member 14 around the washing water inlet 13a for a better sealing of the washing water

inlet 13a with the one end 12a of the flow passage when the washing water inlet is connected

to the one end 12a of the flow passage. The washing duct 13 may further be provided with an

injector nozzle 15 on an upper surface thereof for exclusive washing of endoscopes. The

washing duct 13 may have an upper spray arm 16 further connected to a bottom of the washing

duct 13 for spraying washing water toward the upper rack 11. It is preferable that the flow

Amdt. dated December 2, 2003

Reply to Office Action of September 2, 2003

passage 12 has one end 12a located at a rear side of the washing tub 2, and the other end

connected to a washing pump 7 fitted below the washing tub 2.

Please replace paragraphs [016] and [017] with the following amended paragraphs:

Referring to FIG. 4A, when the user pushes in the upper rack inside of the washing tub

2 after the user sets washing objects (medical instruments) on the upper rack 11, the rubber

member 14 around the washing water inlet 13a of the washing duct 13 comes into contact with

the one end 12a side of the flow passage 12. Then, referring to FIG. 4B, upon closing the door

1a, the upper rack 11 is pushed back by a thrust of the door, such that the rubber member 14

around the washing water inlet 13a is pressed onto the one end 12a of the flow passage 12, to

seal the one end 12a, thereby connecting the washing water inlet 13a to the one end 12a of the

flow passage.

Referring to FIG. 2, when the door 1a is closed fully, the upper rack 11 is brought into

contact with an inside wall of the door 1a to come into a standstill state, sustaining a continuous

pressed sealing state of the washing water inlet 13a and the one end 12a of the flow passage 12.

As the process hereafter is similar to the related art, further explanation of the process will be

omitted.